## Practitioner's Docket No. 48457

# 414 Rec'd PCT/PTO 2 9 SEP 2000 09/44679 9<sup>ATENT</sup>

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Wyatt, et al.

Application No.: 09/446,799 Filed:

Group No.: Examiner:

For:

GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES

**Box PCT** 

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

RECEIVED

## **EXPRESS MAIL CERTIFICATE**

11 OCT 2000

"Express Mail" label number:

EL565096562US

Date of Deposit:

September 29, 2000

Legal Staff International Division

I hereby state that the following attached papers and fee

- 1. Copy of Notification of Missing Requirements Under 35 U.S.C. 371 in the United States Designated/Elected Office (DO/EO/US);
- 2. Check in the amount of \$130.00;
- 3. Completion of Filing Requirements for International Application Entering National Stage in U.S. Designated Office (DO/US) Under 35 U.S.C. 371;
- 4. Check in the amount of \$1850.00;
- 5. Combined Declaration and Power of Attorney;
- 6. Added Page to Combined Declaration and Power of Attorney for Signature by Joint Inventors on Behalf of Non-Signing Inventors who Refuse to Sign or Cannot be Reached (37 CFR 1.47(a));
- 7. A Statement of Facts in Support of Filing on Behalf of Non-Signing Inventors (37 CFR 1.47(a)) (N. Valtz), including:

Exhibit A (letter dated January 10, 2000) Exhibit B (letter dated April 21, 2000)

Exhibit C (letter dated May 22, 2000) Exhibit D (letter dated August 28, 2000)

Exhibit E (Receipt for Certified Mail)

8. A Statement of Facts in Support of Filing on Behalf of Non-Signing Inventors (37 CFR 1.47(a)) (N. Grodin), including:

Exhibit F (email dated August 11, 2000);

- 9. A Statement of Facts in Support of Filing on Behalf of Non-Signing Inventors (37 CFR 1.47(a)) (J. Sodroski):
- 10. Assignment Recordation Cover Sheet (PTO 1595);
- 11. Executed Assignment; and
- 12. Check in the amount of \$40.00.

(Express Mail Certificate—page 1 of 1)

are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Nicole L. M. Valtz

Signature of person mailing paper or fee

10/03/2000 AGIZAW 00000071 09446799

01 FC:128 <del>02 FC:15</del>4

1850.00 OP

12/07/2001 UEDUVIJE 00000138 09446799

01 FC:122

130.00 OP



Patent and Trademark Office Address: ASSISTANT COMMISSIONER FOR PATENTS					
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Washing	C. 20231	E.	157/4	3457	

09/446,799		Washing	C. 20231	( 157/4845	7
U.S. APPLICATION NO.	<del></del>	PIRST NAMED	APPLICANT	ATTY DOCKET-NO	_
	5.6	51.1		PCT/1548/275998	
RONALD I EISENSTEIN			INTER	NATIONAL APPLICATION NO.	7
NIXON & PEABODY					
101 FEDERAL STREET			111	/10/98 11/10	1/97
BOSTON MA 02110			LA. FILING		7
	•			04/18/00	
I			DATE MAILED:		
NOTIFICATION OF MIS	SING REQUIREM	ENTS UNDER	35 U.S.C. 371 I	N THE UNITED	
1. The following items have been subm	DESIGNATED/EL	ECTED OFFIC	E (DO/EO/US)		
a Designated Office (3	7 CFR 1 494)	or me in me	Omico States Pi	atent and I rademark Office a	LS
_/ an Elected Office (37 (	CFR 1.495):				
U.S. Basic National Fee.	,				
Copy of the international applic	ation in:				
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English.				RECEIVE	=D
Translation of the international	application into Engli	sh.			
Oath or Declaration of inventor	s(s) for DO/EO/US.			APR 2 4 200	0
Copy of Article 19 amendments				ì	
Translation of Article 19 amend	lments into English.			<b>NIXON PEABODY</b>	/111
The International Preliminary E	xamination Report in	English and its.	Annexes, if any.		
Translation of Annexes to the In Preliminary amendment(s) filed	itemational Prelimina	_	Report into Engl	lis <u>h</u> .	
Information Disclosure Stateme	on(c) filed	and	<del></del>	<del></del> ·	
Assignment document.	m(2) Inea	and	<del></del>	<del></del> ·	
Power of Attorney and/or Chan	ge of Address				
Substitute specification filed	ge of Address.				
☐ Verified Statement Claiming Sm	nall Entity Status	<del></del> '			
Priority Document.	/				
Copy of the International Search	n Report 🛮 and copie	s of the reference	es cited therein.		
└ Other:					
2. The following items MUST be furni	ished within the perio	d set forth below	in order to com	plete the requirements for	
acceptance under 33 U.S.C. 3/1:					
a. Translation of the application appropriate 20 or 30 months fro	i into English. Note a	processing fee	will be required	if submitted later than the	
The current translation	on is defective for a	the reacone ind	iostad on the	attached Notice of Defective	
Translation.	on is defective for	uic icasous iini	icated of the a	ittached Notice of Defectiv	/e
b. Processing fee for providing 30 months from the priority date	the translation of the : e (37 CFR 1.492(f)).	application and/	or the Annexes l	ater than the appropriate 20	οτ
C. Oath or declaration of the inv	entors, in compliance	with 37 CFR 1	.497(a) and (b),	identifying the application by	y
☐ The current oath or dec  ✓ on the attached PCT/D	claration does not com O/EO/917	aply with 37 CF		b) for the reasons indicated	
d. Surcharge for providing the c (37 CFR 1.492(e)).	oath or declaration lat	er than the appr	opriate 20 or 30	months from the priority date	e
3. Additional claim fees of \$	as a 🗌 large ei	ntity Small en	tity, including a	ny required multiple depende	1ne
claim fee, are required. Applicant mus due. See attached PTO-875.	t submit the additiona	l claim fees or o	ancel the addition	onal claims for which fees are	<b>c</b>
ALL OF THE ITEMS SET FORTH	IN 2(a)-2(d) AND 3	A BOVE MIRT	DP CTDMTT		-
FROM THE DATE OF THIS NOTIC	E OR BY 🖊 21 OR	1 31 MONTE	IS FROM THE	מראם שדיגת שדוםרווםם	1
THE APPLICATION, WHICHEVED	IS LATER. FAIL	URE TO PROP	ERLY RESPO	ND WILL RESULT IN	
ABANDONMENT.					
The time period set above may be exter CFR 1.136(a).	nded by filing a petition	on and fee for ex	tension of time	under the provisions of 37	
4. Translation of the Annexes MUST t	e submitted no later t	that the time per	iod set ahove or	the annexes will be consulted	a
trote processing tee will be required it	submitted later than 3	O months from t	he priority date		<b>.</b>
5. The Article 19 amendments are c 494(d)) or 30 (37 CFR 1.495(d)) month	ancelled since a trans	lation was not n	rovided by the a	ppropriate 20 (37 CFR.	
Applicant is reminded that any communaddress given in the heading and includ	lication to the United	States Patent an	d Trademark Of	fice must be mailed to the	
A copy of this notice					
<u> </u>				<del></del>	

Enclosed:	112002 DO FUNDATION WASTE	ms response.
☐ PCT/DO/EO/917 ☐ PTO-875	Notice of Defective Translation	Jun hudin
FORM PCT/DO/EO/905 (December	1997)	Telephone: 703 325-9116

Practitioner's Docket No. 48457

## IN THE UNITED STATES DESIGNATED OFFICE (DO/US)

PCT/US98/23998	10 November 1998 (10.11.98)	10 November 1997 (10.11.97)
International Application Number	International Filing Date	International Earliest Priority Date

TITLE OF INVENTION: GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES

APPLICANT FOR DO/US: Dana-Farber Cancer Institute, Inc.; The Trustees of the Columbia University in the City of New York; WYATT, Richard T.; SODROSKI, Joseph G.; KWONG, Peter D.; and HENDRICKSON, Wayne A.

Box PCT
Assistant Commissioner for Patents
Washington, D.C. 20231
ATTENTION: DO/US

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## COMPLETION OF FILING REQUIREMENTS FOR INTERNATIONAL APPLICATION ENTERING NATIONAL STAGE IN U.S. DESIGNATED OFFICE (DO/US) UNDER 35 U.S.C. 371

#### **CERTIFICATION UNDER 37 C.F.R. 1.10\***

(Express Mail label number is mandatory.)
(Express Mail certification is optional.)

I hereby certify that this Completion of Filing Requirements and the papers indicated as being transmitted therewith is being deposited with the United States Postal Service on this date September 29, in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number EL565096562, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Nicole L. M. Valtz

(type or print name of person mailing paper

Signature of person mailing paper

**WARNING**:

Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

\*WARNING:

Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed

thereon prior to mailing. 37 C.F.R 1.10(b).

"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Completion of Filing Requirements for International Application Entering National Stage in Designated Office (DO/US) under 35 U.S.C. § 371--page 1 of 5)

This replies to the Notice of Missing Requirements under 35 U.S.C. § 371 and 37 C.F.R. § 1.494 (FORM PCT/DO/EO/905).

A copy of FORM PCT/DO/EO/905 accompanies this response.

## **DECLARATION OR OATH**

I. No original declaration or oath was filed. Enclosed is the original combined Declaration and Power of Attorney for this application, including an Added Page to Combined Declaration and Power of Attorney for Signature by Joint Inventors on Behalf of Nonsigning Inventors Who Refuse to Sign or Cannot be Reached (37 CFR 1.47(a)).

The undersigned hereby petitions the Commissioner to accept this Declaration by the joint inventors on behalf of the nonsigning inventors, and have set forth the pertinent facts in the accompanying Statements of Fact in Support of Filing on Behalf of Non-Signing Inventors. Accordingly, the fee set forth in § 1.17(i) is included.

## **FEES**

П.

1. Fees for claims

No additional fees for claims are required.

## **EXTENSION OF TIME**

III. The proceedings herein are for a patent application. The provisions of 37 C.F.R. § 1.1 36(a) apply.

Applicant petitions for an extension of time, the fees for which are set out in 37 C.F.R. § 1.17(a)(1)-(5), for five months.

Fee \$ 1,850.00

If an additional extension of time is required, please consider this a petition therefore.

Extension fee due with this request \$ 1,850.00

35 U.S.C. § 371--page 2 of 5)

### PAYMENT OF FEES

Enclosed is a check in the amount of \$1850.00 for the extension of time (37 C.F.R. § 1.1 36(a)), as well as a check in the amount of \$130.00 for the petition (§ 1.17(i)).

## **AUTHORIZATION TO CHARGE ADDITIONAL FEES**

The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper, and during the entire pendency of this application, to Account No. 50-0850.

37 C.F.R. §§ 1.492(a)(2), 1.492(a)(3), or 1.492(a)(5) (filing fees)

37 C.F.R. § 1.492(b) (presentation of extra claims)

37 C.F.R. § 1.17 (application processing fees)

37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a)).

SIGNATURE OF PRACTITIONER

Reg. No. 30,628

Tel. No.: (617) 345-6054

Ronald I. Eisenstein NIXON PEABODY LLP 101 Federal Street Boston, MA 02110



ATTORNEYS AT LAW

101 Federal Street Boston, MA 02110-1832 (617) 345-1000 Fax: (617) 345-1300

Direct Dial: (617) 345-6054 E-Mail: reisenstein@nixonpeabody.com

January 10, 2000

Ofra Weinberger, Ph.D.
Columbia Innovation Enterprise
Columbia University
P.H. 15-Center
630 W. 168<sup>th</sup> Street
New York, NY 10032

RE: R. Wyatt, et al.

National Phase Filing of PCT/US98/23998

Our Ref. No.: 157/48457

## Dear Dr. Weinberger:

Enclosed please find a combined Declaration and Power of Attorney, and an Assignment for Drs. Kwong and Hendrickson, and a Small Entity form for Columbia University in connection with the U.S. filing of the above-identified case. We ask that you have these documents executed and returned to us at your earliest possible convenience.

Thank you for your assistance in this matter. We will keep you advised of further developments.

Please do not hesitate to contact us if you have any questions.

Very truly yours,

NIXON PEABODY LLP

Ronald I. Eisenstein

RIE/nv Enclosures

CC: P. Ariniello (w/o enclosures)

R. Emyanitoff, Ph.D. (w/o enclosures)

which is described and claimed in:

Pag 1 of 4

## **DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first and joint inventor (if plural names are listed at 201-208 below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES

	the specification attached hereto.
0	the specification in U.S. Application Serial Number filed on; and
×	the specification in PCT international application Number <u>PCT/US98/23998</u> , filed on <u>November 10,1998</u> ; and was amended on
including the cinformation who Regulations, § foreign applica	y state that I have reviewed and understand the contents of the above identified specification, claims, as amended by any amendment referred to above. I acknowledge the duty to disclose nich is material to the examination of this application in accordance with Title 37, Code of Federal 1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any tion(s) for patent or inventor's certificate listed below and have also identified below any foreign patent or inventor's certificate having a filing date before that of the application on which priority

Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. §119:				
Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. §119?	
			□YES □NO	

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Prior U.S. Applications or PCT International Applications Designating the U.S-Benefit
Under 35 U.S.C. §120

U.S. Applications			5	Status (Check	On )
Applicati	n Serial N .	U.S. Filing Date	Pat nted	Pending	Abandoned
08/ 966,932		November 10, 1997		X	
08/ 967,148		November 10, 1997		х	
08/ 967,708		November 10, 1997		X	
08/ 967,403		November 10, 1997		X	
08/ 966,987		November 10, 1997		x	
08/ 976,741		November 24, 1997		X	
09/ 100,762		June 18, 1998		X	
09/ 100,631		June 18, 1998		х	
09/ 100,521		June 18, 1998		x	
09/ 100,763		June 18, 1998		x	
09/ 100,529		June 18, 1998		X	
09/ 100,764		June 18, 1998		Х	
(	PCT Applications Designati	ng the U.S.			
Application No.	Fiting Date	U.S. Serial No. Assigned			
PCT/US98/23998	November 10, 1998			X	
				<b>-</b>	

# CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. §119(e))

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application Number	Filing Date
R. Wyatt, et al.	60/ 089,581	June 17, 1998
R. Wyatt, et al.	60/ 089,580	June 17, 1998

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Ronald I. Eisenstein (Reg. No. 30,628) Jeffrey 8. Amold Lisa A. Dolak Edwin V. Merkel

(Reg. No. 39,540) (Reg. No. 35,491) (Reg. No. 40,087)

David S. Resnick Georgia Caton William T. French

(Reg. No. 34,235) (Reg. No. P-44,957) (Reg. No. 16,297)

Michael L. Goldman (Reg. No. 30,727) Dennis M. Connolly (Reg. No. 40,964) Gunnar G. Leinberg (Reg. No. 35,584)

**SEND CORRESPONDENCE TO:** 

Ronald I. Eisenstein **NIXON PEABODY LLP** 101 Federal Street

Boston, Massachusetts 02110

DIRECT TELEPHONE CALLS TO:

Ronald I. Eisenstein (617) 345-6054

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		WYATT	Richard	τ,
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0		Andover	Massachusetts	USA
'	POST OFFICE ADDRESS	POST OFFICE ADDRESS	СПҮ	STATE OR COUNTRY AND ZIP CODE
	<u></u>	11 Delphi Circle	Andover	Massachusetts 01810

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		SODROSKI	Joseph	G
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0 2		Medford	Massachusetts	USA
-	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
<u></u>		10 Ashland Place	Medford	Massachusetts 02155

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		KWONG	Peter	D.
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0		New York	New York	USA
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		352 W. 15th St. Apt. 403	New York	New York 10011

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		HENDRICKSON	Wayne	<b>A</b> .
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0		Hastings-on-Hudson	New York	USA
4	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		161 Mt. Hope Boulevard	Hastings-on-Hudson	New York 10706

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201	Date:
Signature of Inventor 202	Date:
Signature of Inventor 203	Date:
Signature of Inventor 204	Date:

Attorney's Docket No.: 48457

## **ASSIGNMENT**

WHEREAS, We, Peter D. Kwong, a United States citizen, residing at 352 West 15<sup>th</sup> Street Apartment 403, New York, New York 10011, and Wayne A. Hendrickson, a United States citizen residing at 161 Mt. Hope Boulevard, Hastings-on-Hudson, New York 10706, have invented certain new and useful improvements in GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES for which we have executed an application for Letters Patent in the United States, filed on December 22, 1999, United States Serial Number

AND WHEREAS, The Trustees of Columbia University, a New York corporation, with its principal place of business at West 116<sup>th</sup> Street & Broadway, New York, New York 10027, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said The Trustees of Columbia University, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue Patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said The Trustees of Columbia University, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said The Trustees of Columbia University, its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said The Trustees of Columbia University, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Street, Boston, Massachusetts 02110, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document. IN TESTIMONY WHEREOF, I, Peter D. Kwong, hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_. Peter D. Kwong STATE OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_SS: This \_\_\_\_ day of \_\_\_\_, 20\_\_, before me personally came the above-named to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth. Notary Public IN TESTIMONY WHEREOF, I, Wayne A. Hendrickson, hereunto set my hand and seal this \_\_\_\_ day of \_\_\_\_\_\_\_, 20\_\_\_. Wayne A. Hendrickson STATE OF \_\_\_\_ COUNTY OF This \_\_\_\_ day of \_\_\_\_, 20\_\_, before me personally came the above-named to me personally known as the individual who executed the same of his/her own free will for the purposes therein set forth.

Notary Public

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 101 Federal

Practitioner's Docket PATENT	No157/ 48457
IN TH	HE UNITED STATES PATENT AND TRADEMARK OFFICE
In re application of: Serial No.: Filed on: Title:	R. Wyatt, et al.  December 22, 1999 GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES
Sir:	
(3	STATEMENT CLAIMING SMALL ENTITY STATUS 77 CFR 1.9(f) and 1.27(b)-NONPROFIT ORGANIZATION
I hereby state identified below:	that I am an official empowered to act on behalf of the nonprofit organization
	ganization The Trustees of Columbia University  Organization West 116th Street & Broadway, New York, New York 10027
TYPE OF NONPROFI	T ORGANIZATION
[] Tax Exemp [] Nonprofit S (Name of S (Citation of [] Would Qua and 501(c) [] Would Qua States of A (Name of S (Citation of	or Other Institution of Higher Education It Under Internal Revenue Service Code (26 USC 501(a) and 501 (c)(3)) Is cientific or Educational Under Statute of State of the United States of America Itate
as defined in 37 CFR	1.9(e), for purposes of paying reduced fees to the United States Patent and Trademark 41(a) and (b) of Title 35, United States Code, with regard to the invention described
[X] the ap	ecification filed herewith, with title as listed above.  pplication identified above.  stent identified above.

I hereby state that rights under contract or law have been conveyed to, and remain with, the nonprofit organization, with regard to the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 C.F.R. 1.9(c), if that person made the invention, or by any concern that would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e)

\*NOTE: Separate statements are required from each named person, concern or organization having rights to the invention as to their status as small entities. (37 CFR 1.27).

Each such person, concern or organization having any rights in the invention is listed below:

- [] No such person, concern, or organization exists.
- [X] Each such person, concern or organization is listed below.

FULL NAME_	Dana-Farber Cancer Institute			
ADDRESS	44 Binney Street			
	Boston, MA 02115			
[] INDIVIDUAL	[ ] SMALL BUSINESS CONCERN	[X] NONPROFIT ORGANIZATION		

I acknowledge the duty to file, in this application or patent, notification of any charge in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

(check the following item, if desired)

- NOTE: The following verification statement need not be made in accordance with the rules published on October 10, 1997, 62 Fed. Reg. 52131, effective December 1, 1997.
- NOTE: "The presentation to the Office (whether by signing, filing, submitting, or later advocating) of any paper by a party, whether a practitioner or non-practitioner, constitutes a certification under § 10.18(b) of this chapter. Violations of § 10.18(b)(2) of this chapter by a party, whether a practitioner or non-practitioner, may result in the imposition of sanctions under § 10.18(c) of this chapter. Any practitioner violating § 10.18(b) may also be subject to disciplinary action. See §§ 10.18(d) and 10.23(c)(15)." 37 CFR 1.4(d)(2).

statements made o were made with th fine or imprisonm such willful false	that all statements made herein of my own knowledge are true and that all in information and belief are believed to be true; and further that these statements is knowledge that willful false statements and the like so made are punishable by ent, or both, under Section 1001 of Title 18 of the United States Code, and that statements may jeopardize the validity of the application, any patent issuing ent to which this verified statement is directed.
Name of Person Signing	<del> </del>
Title in Organization Address of Person Signing	
5 0	
SIGNATURE	Date

#5

101 Federal Street Boston, MA 02110-1832 (617) 345-1000 Fax: (617) 345-1300

Direct Dial: (617) 345-6054 E-Mail: reisenstein@nixonpeabody.com

April 21, 2000

Ofra Weinberger, Ph.D.
Columbia Innovation Enterprise
Columbia University
P.H. 15-Center
630 W. 168<sup>th</sup> Street
New York, NY 10032

RE: R. Wyatt, et al.

U.S.S.N. 09/446,799

National Phase Filing of PCT/US98/23998

Our Ref. No.: 48457

Dear Dr. Weinberger:

Enclosed please find a copy of a Decision on Petition we received April 20, 2000 from the U.S. PTO in connection with the above-identified matter. This application has been successfully revived and assigned U.S. serial number 09/446,799.

To obtain a filing date for the application in the national stage in the U.S., an executed declaration must be submitted. We have previously sent you a copy of the Declaration, Assignment, and small entity documents for filing in connection with this application, as well as for the recently revived application U.S.S.N. 09/446,820. Please have these documents executed and returned to us at your earliest convenience.

Thank you for your assistance in this matter. We will keep you advised of further developments.

Please do not hesitate to contact us if you have any questions.

Very truly yours, NIXON PEABODY LLP

Ronald I. Eisenstein

RIE/nv Enclosures

CC: P. Ariniello (w/o enclosures)

R. Emyanitoff, Ph.D. (w/o enclosures)



Patent Cooperation Treaty Legal Office

> Address: Assistant Commissioner for Patents Box PCT Washington, D.C. 20231

APR 1 0 2000

Ronald I. Eisenstein NIXON PEABODY LLP 101 Federal Street Boston, MA 02110

In re Application of

WYATT, Richard T. et al

U.S. Application No.: 09/446,799

PCT No.: PCT/US98/23998

Int. Filing Date: 10 November 1998

Priority Date: 10 November 1997

Attorney Docket No.: 157/48457

For: GLCOSYLATED MODIFIED PRIMATE

LENTIVIRUS ENVELOPE

**POLYPEPTIDES** 

DECISION ON PETITION FOR REVIVAL UNDER 37 CFR 1.137(b)

The petition to revive under 37 CFR 1.137(b) filed 22 December 1999 in the above-captioned application is hereby **GRANTED** as follows:

Applicants' statement that the "entire delay in filing the required reply from the due date until the filing of this petition was unintentional" satisfies 37 CFR 1.137(b)(3). The appropriate basic national fee and petition fee have been submitted. Accordingly, all requirements under 37 CFR 1.137(b) have been satisfied.

A review of the above-captioned application reveals that applicants have not submitted a declaration in compliance with 37 CFR 1.497.

The application is being forwarded to the United States Designated/Elected Office for further processing including mailing a NOTIFICATION OF MISSING REQUIREMENTS (Form PCT/DO/EO/905) for failing to provide an oath or declaration and surcharge fee pursuant to 37 CFR 1.492(e).

Leonard Smith

PCT Legal Examiner

PCT Legal Office

ames Thomson
Petitions Attorney
PCT Legal Office

Tel.: (703) 308-6457

RECEIVED

APR 2 0 2000

NIXCOUNT CARROLLY LLP



## NIXON PEABODY LLP

ATTORNEYS AT LAW 101 Federal Street Boston, MA 02110-1832 (617) 345-1000 Fax: (617) 345-1300

Direct Dial: (617) 345-6054 E-Mail: reisenstein@nixonpeabody.com

May 22, 2000

Ofra Weinberger, Ph.D. Columbia Innovation Enterprise Columbia University P.H. 15-Center 630 W. 168<sup>th</sup> Street New York, NY 10032

RE:

R. Wyatt, et al.

U.S.S.N. 09/446,799

National Phase Filing of PCT/US98/23998

Our Ref. No.: 48457

J. Sodroski, et al. U.S.S.N. 09/446,820

National Phase Filing of PCT/US98/24001

Our Ref. No.: 48436

## Dear Dr. Weinberger:

At this time we are writing to remind you that to obtain a filing date for the above-identified applications in the national stage in the U.S., an executed declaration must be submitted. We have previously sent you a copy of the Declaration, Assignment, and small entity documents for filing in connection with these applications. Again, we ask that you please have these documents executed and returned to us at your earliest convenience.

Thank you for your assistance in this matter. We will keep you advised of further developments.

BOS386020.1



Please do not hesitate to contact us if you have any questions.

Very truly yours. NIXON PEABODY LLP

Ronald I. Eisenstein

RIE/nv/mrv

cc:

P. Ariniello

R. Emyanitoff, Ph.D.



## NIXON PEABODY LLP

ATTORNEYS AT LAW 101 Federal Street Boston, MA 02110-1832 (617) 345-1000 Fax: (617) 345-1300

Direct Dial: (617) 345-6054 E-Mail: reisenstein@nixonpeabody.com

August 28, 2000

## **VIA CERTIFIED MAIL**

A 86

Ofra Weinberger, Ph.D.
Columbia Innovation Enterprise
Columbia University
P.H. 15-Center
630 W. 168<sup>th</sup> Street
New York, NY 10032

RE:

R. Wyatt, et al.

U.S.S.N. 09/446,799

National Phase Filing of PCT/US98/23998

Our Ref. No.: 48457

J. Sodroski, et al.U.S.S.N. 09/446,820

National Phase Filing of PCT/US98/24001

Our Ref. No.: 48436

## Dear Dr. Weinberger:

At this time we are writing to remind you that to obtain a filing date for the above-identified applications in the national stage in the U.S., an executed declaration must be submitted.

We originally sent you on January 10, 2000 copies of the Declaration, Assignment, and small entity documents, shortly after the filing of the U.S. national phase application (on December 22, 1999). Additional reminder letters regarding these documents were sent on numerous occasions including April 3, 2000 (with Notice of Missing Requirements), April 21, 2000 (with Notice of Missing Requirements), and May 22, 2000, as well as by e-mail from DFCI on August 18, 2000.

Please note that the final deadline for responding to the Notification of Missing Requirements (under 35 U.S.C. 371) is <u>October 11, 2000</u> for U.S.S.N. 09/446,799 and

SUBANNE NA EBOSTON INSEREITO INVESTEDIN CITA INVENENTE NELLE ELS INVESTEDINA DE LA CONTRA ESCOLAR PROFESSOR NELLE EL CONTRA EL

BOS412443.1



<u>September 30, 2000</u> for U.S.S.N. 09/446,820. Again, we ask that you please have these documents executed and returned to us at your earliest convenience. In the absence of receiving this we will be forced to resort to the provisions of 37 CFR 1.47(a), which will add to the cost.

Thank you for your assistance in this matter. We will keep you advised of further developments.

Please do not hesitate to contact us if you have any questions.

Very truly yours,

NIXON PEABODY LLP

Ronald I. Eisenstein

## RIE/nv/mrv

cc:

P. Ariniello

R. Emyanitoff, Ph.D.

J. Sodroski

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Richard T. WYATT

Joseph G. SODROSKI Peter D. KWONG

Wayne A. HENDRICKSON

SERIAL NO.: 09/446,799

FILED:

FOR:

بالار <sub>م</sub>ال

GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE

**POLYPEPTIDES** 

Assistant Commissioner for Patents Box PCT Washington, D.C. 20231

Sir:

## A STATEMENT OF FACTS IN SUPPORT OF FILING

## ON BEHALF OF NON-SIGNING INVENTORS

(37 CFR 1.47(a))

I, Nancy N. Grodin, a citizen of United States, residing in Newton, Massachusetts, make this declaration providing facts in support of filing on behalf of the non-signing inventors, Peter D. Kwong and Wayne A. Hendrickson.

I am a Licensing Associate in the Office of Technology Transfer employed by Dana-Farber Cancer Institute, Boston, Massachusetts.

I make this declaration as a person having first hand knowledge of the facts recited herein.

Two of the applicants of the above described application, Peter D. Kwong and Wayne A. Hendrickson, are scientists at Columbia University. Therefore, on or about August 11, 2000, I prepared and sent an e-mail to Ofra Weinberger, an Associate Director of Health Sciences at Columbia Innovation Enterprise (i.e., the technology transfer office), Columbia University, New York, New York. In the e-mail, I requested that she have the Columbia University scientists execute the documents sent to her by our outside counsel, the law firm of Nixon Peabody LLP, Boston, Massachusetts. A copy of the e-mail is attached hereto as Exhibit F.

In September, 2000, I was advised by Dr. Weinberger that while Columbia University would execute a Small Entity document, it would not at this time have the Declarations executed. She stated that as they had other applications pending which applications involve some of the

same inventors from both Dana-Farber Cancer Institute and Columbia University, they would not have the Declarations executed until advised by their attorney that all issues of any possible overlapping subject matter had been resolved. This date, less than one and one-half months before the final deadline, was the first time they advised us that they were refusing to sign the Declarations.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Sept. 12, 2000

Date

Nancy N. Grodin

## Valtz, Nicole

From:

Eisenstein, Ronald

Sent:

Friday, August 18, 2000 8:47 AM

To:

Subject:

Valtz, Nicole FW: Dana-Farber Cases #577 and #578

----Original Message-----

From: Ğrodin, Nancy N. [mailto:Nancy\_Grodin@dfci.harvard.edu]

Sent: Friday, August 11, 2000 12:52 PM To: Ofra Weinberger Ph. D. (E-mail) Cc: Ronald I. Eisenstein (E-mail)

Subject: Dana-Farber Cases #577 and #578

## Dear Ofra:

As per my telephone message of earlier today, I am contacting you regarding two of our cases in which Columbia's Drs. Kwong and Hendrickson, are inventors.

DFCI #577 "Stabilized Primate Lentivirus Envelope Glycoproteins", DFCI inventors are Sodroski, Farzan and Wyatt DFCI #578 "Glycosylated Modified Primate Lentivirus Envelope Polypeptides", DFCI inventors are Sodroski and Wyatt

With regard to these applications, our outside counsel, Ron Eisenstein, sent you certain documents, including entity status, which require Columbia signatures. Please look into this as soon as you can so we can continue with our prosecution and avoid unnecessary penalties due to missed deadlines. If you need assistance please contact me and I would be happy to help.

I look forward to hearing from you on this matter as soon as possible. Hope you are enjoying the summer.

Regards,

Nancy

Nancy Grodin, MS, MBA Licensing Associate Office of Technology Transfer Dana-Farber Cancer Institute 44 Binney Street Boston, MA 02115 Tel: (617) 632 5516

Tel: (617) 632 5516 Fax: (617) 632 4012

email: nancy\_grodin@dfci.harvard.edu OTT Website: http://ott.dfci.harvard.edu/

1

PTO/FET Rec'd 29 SEP 2000 # 09/446799

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Richard T. WYATT

Joseph G. SODROSKI Peter D. KWONG

Wayne A. HENDRICKSON

SERIAL NO.: 09/446,799

FILED:

FOR:

GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE

POLYPEPTIDES

Assistant Commissioner for Patents Box PCT Washington, D.C. 20231

Sir:

## A STATEMENT OF FACTS IN SUPPORT OF FILING

### ON BEHALF OF NON-SIGNING INVENTORS

(37 CFR 1.47(a))

I, Joseph G. Sodroski, a citizen of United States, residing in Medford, Massachusetts, make this declaration providing facts in support of filing on behalf of the non-signing inventors, Peter D. Kwong and Wayne A. Hendrickson.

I am a joint inventor of the above mentioned patent application and I am employed by Dana-Farber Cancer Institute, Boston, Massachusetts.

I make this declaration as a person having first hand knowledge of the facts recited herein.

I worked in collaboration with Richard Wyatt at Dana-Farber Cancer Institute, Boston, Massachusetts and Peter D. Kwong and Wayne A. Hendrickson, at Columbia University, New York, New York, for the research that resulted in the invention. During that time, we jointly invented certain new and useful improvements in GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES.

I have been shown the Declarations by Nicole L.M. Valtz and Nancy N. Gordin and I am thus aware that Drs. Kwong and Hendrickson have not signed the declarations in the above mentioned matter.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date

Joseph/G. Sodroski

PTOPCT Rec'd 29 SEP 2000 #5

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Richard T. WYATT

Joseph G. SODROSKI Peter D. KWONG

Wayne A. HENDRICKSON

SERIAL NO.: 09/446,799

FILED:

FOR:

EM Fin

GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE

**POLYPEPTIDES** 

Assistant Commissioner for Patents Box PCT Washington, D.C. 20231

Sir:

## A STATEMENT OF FACTS IN SUPPORT OF FILING

## ON BEHALF OF NON-SIGNING INVENTORS

(37 CFR 1.47(a))

I, Nicole L.M. Valtz, a citizen of United States, residing in Jamaica Plain, Massachusetts, make this declaration providing facts in support of filing on behalf of the non-signing inventors, Peter D. Kwong and Wayne A. Hendrickson.

I am a Technical Specialist employed by the law firm of Nixon Peabody LLP, Boston, Massachusetts. I make this declaration as a person having first hand knowledge of the facts recited herein.

Two of the applicants, Drs. Kwong and Hendrickson, are scientists at Columbia University. Therefore, on or about January 10, 2000, I prepared and sent a letter to Ofra Weinberger, an Associate Director of Health Sciences at Columbia Innovation Enterprise (i.e., the technology transfer office), Columbia University, New York, New York, requesting that she obtain signatures for us from the inventors Peter D. Kwong and Wayne A. Hendrickson as is the standard procedure. The letter enclosed Declaration and Power of Attorney, Small Entity and Assignment documents for the inventors to execute. A copy of the letter is attached hereto as Exhibit A.

On or about April 21, 2000, I prepared and sent a letter to said Ofra Weinberger enclosing a Decision on Petition to Revive under 37 CFR 1.137(b). The letter repeated the

request for the inventors to execute the previously sent Declaration, Power of Attorney, Small Entity and Assignment forms. A copy of the letter is attached hereto as Exhibit B.

On or about May 22, 2000 I prepared and my secretary, Maria R. Valinch, sent a letter to said Ofra Weinberger requesting execution of the previously sent Declaration and Power of Attorney, Small Entity and Assignment documents, for the third time. A copy of the letter is attached hereto as Exhibit C.

Upon information and belief, on or about August 18, an e-mail was sent by Nancy N. Grodin, a Licensing Associate in the Office of Technology Transfer at Dana-Farber Cancer Institute reminding Dr. Weinberger that we had not received the executed declarations or any other response.

On or about August 28, 2000, I prepared and my secretary, Maria R. Valinch, sent a letter to said Ofra Weinberger via certified mail requesting execution of the previously sent Declaration and Power of Attorney, Small Entity and Assignment documents and advising about the intention of the other inventors, Richard T. Wyatt and Joseph G. Sodroski, to file under 37 C.F.R. 1.47(a) unless signed documents were received. A copy of the letter is attached hereto as Exhibit D; a copy of the Receipt for Certified Mail is attached hereto as Exhibit E.

Neither Ofra Weinberger nor the inventors, Peter D. Kwong or Wayne A. Hendrickson, have returned signed copies of the Declaration and Power of Attorney, Small Entity and Assignment documents to our office in response to any of the above mentioned letters.

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Sept. 28,2000

Date

Nicole L.M. Valtz

ywww.w.v.l.2.

NIXON PEABODY LLP 101 Federal Street Boston, Massachusetts 02110

Page 1 of 4

## **DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first and joint inventor (if plural names are listed at 201-208 below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES

which is d	escribed and claimed in:
	the specification attached hereto.
	the specification in U.S. Application Serial Number filed on; and
X	the specification in PCT international application Number <u>PCT/US98/23998</u> , filed on <u>November 10,1998</u> ; and was amended on
including t informatio Regulation foreign ap	ereby state that I have reviewed and understand the contents of the above identified specification, he claims, as amended by any amendment referred to above. I acknowledge the duty to disclose n which is material to the examination of this application in accordance with Title 37, Code of Federal s, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any plication(s) for patent or inventor's certificate listed below and have also identified below any foreign of for patent or inventor's certificate having a filing date before that of the application on which priority
<u></u>	

Prior Foreign/F	Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. §119:				
Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. §119?		
			□YES □NO		
			□YES □NO		
	·		□YES □NO		
			□YES □NO		

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Prior U.S. Applications or PCT International Applications Designating the U.S-Benefit
Under 35 U.S.C. §120

U.S. Applications			S	tatus (Check	One)
Applicati	on Serial No.	U.S. Filing Date	Patented	Pending	Abandoned
08/ 966,932		November 10, 1997		X	•
08/ 967,148		November 10, 1997		Х	
08/ 967,708		November 10, 1997		Х	
08/ 967,403		November 10, 1997		х	
08/ 966,987		November 10, 1997		х	
08/ 976,741		November 24, 1997		х	
09/ 100,762		June 18, 1998		х	
09/ 100,631		June 18, 1998		х	
09/ 100,521		June 18, 1998		Х	
09/ 100,763		June 18, 1998		x	
09/ 100,529		June 18, 1998		Х	
09/ 100,764		June 18, 1998		Χ .	
	PCT Applications Designation	ng the U.S.			
Application No.	Filing Date	U.S. Serial No. Assigned			
PCT/US98/23998	November 10, 1998			Х	

# CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. §119(e))

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application Number	Filing Date
R. Wyatt, et al.	60/ 089,581	June 17, 1998
R. Wyatt, et al.	60/ 089,580	June 17, 1998

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Ronald I. Eisenstein
Jeffrey B. Arnold
Lisa A. Dolak
Edwin V. Merkel

Reg. No. 30,628
(Reg. No. 39,540)
(Reg. No. 35,491)
(Reg. No. 40,087)

 David S. Resnick
 (Reg. No. 34,235)

 Georgia Caton
 (Reg. No. P-44,957)

 William T. French
 (Reg. No. 16,297)

Michael L. Goldman (Reg. No. 30,727)
Dennis M. Connolly (Reg. No. 40,964)
Gunnar G. Leinberg (Reg. No. 35,584)

SEND CORRESPONDENCE TO:

Ronald I. Eisenstein NIXON PEABODY LLP 101 Federal Street

Boston, Massachusetts 02110

**DIRECT TELEPHONE CALLS TO:** 

Ronald I. Eisenstein (617) 345-6054

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		WYATT	Richard	т.
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0		Andover	Massachusetts	USA
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		11 Delphi Circle	Andover	Massachusetts 01810

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		SODROSKI	Joseph	G
2	RESIDENCE & CITIZENSHIP	СІТУ	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0		Medford	Massachusetts	USA
2	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		10 Ashland Place	Medford	Massachusetts 02155

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		KWONG	Peter	D.
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0		New York	New York	USA
3	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		352 W. 15 <sup>th</sup> St. Apt. 403	New York	New York 10011

	424 DEST	<u> </u>		
	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		HENDRICKSON	Wayne	Α.
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
0		Hastings-on-Hudson	New York	USA
4	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE
		161 Mt. Hope Boulevard	Hastings-on-Hudson	New York 10706

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201	Date:
Rilal J. Wyato	1/25/00
Signature of Inventor 202	Date:
Joyh Soduh	1/31/00
Signature of Inventor 203	Date:
Signature of Inventor 204	Date:
Signature of Inventor 203	Date:

Practitioner's Docket No. 48457

## ADDED PAGE TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR SIGNATURE BY JOINT INVENTOR(S) ON BEHALF OF NONSIGNING INVENTOR(S) WHO REFUSE(S) TO SIGN OR CANNOT BE REACHED (37 CFR 1.47(a))

WAKNI	behalf' of themselves and on behalf of a joint inventor who 'cannot' be found or reached after who refuses to "join in an application.' "M.P.E.P. § 409.03(a), 6th ed., rev. 3 (emphasis a Fed. Reg. 53,131, 53,137, 203 O.G. 68 (Oct. 10, 1997).	er diligent effa	ort" "or
	an above named joint inventor and have signed this declaration on my own behalf and also sign this of 7(a) on behalf of the nonsigning joint inventors, particulars for whom are:	declaration un	ider 37
	ng inventor who		
	[X] refuses to sign [ ] cannot be found or reached		
NOTE:	The name of the nonsigning inventor(s) should preferably also be filled in at the appropriate declaration, adding the words "nonsigning inventor-completed on added page."	prior space	in the
	U.S.A.		
Countr	U.S.A. y of Citizenship of nonsigning inventor	-	
 Last kn	352 W, 15th Street Apt. 403; New York, New York 10011  own address of nonsigning inventor	-	
	ne of (first, second, etc.) Wayne A. Hendrickson ng inventor who	-	
J	[X] refuses to sign [] cannot be found or reached		
NOTE:	The name of the nonsigning inventor(s) should preferably also be filled in at the appropriate declaration, adding the words "nonsigning inventor-completed on added page."	prior space	in the
	U.S.A.		
Countr	y of Citizenship of nonsigning inventor		
<u>161 Mt</u>	Hope Blvd., Hastings-on-Hudson, New York 10706	-	
NOTE:	Ordinarily the last known address will be the last known residence of the nonsigning importance	A post office	hor i

Ordinarily, the last known address will be the last known residence of the nonsigning inventor(s). A post office box is insufficient. Other addresses at which the nonsigning inventor(s) may be reached should also be given. These can best be given in the Statement Of Facts in Support Of Filing On Behalf Of Nonsigning Inventor. MPEP § 409.03(e), 6th ed.

> (Added Page to Combined Declaration and Power of Attorney For Signature By One Joint Inventor on Behalf of Nonsigning Inventor(s) Who Refuse(s) to Sign or Cannot Be Reached—page 1 of 1)

II. Accompanying this declaration is:

- (1) A STATEMENT OF FACTS IN SUPPORT OF FILING ON BEHALF OF NONSIGNING INVENTORS
- (2) THE PETITION FEE OF \$130.00 (37 CFR 1.17(i))

Richard T. Wyatt	- Kulas J. Mysto
(type or print name of joint inventor	Signature
signing on behalf of nonsigning inventor)	$\Omega I I \Omega I$
Joseph G, Sodroski	_ John Solrohn

FORM PTO-15 5 (Rev. 6-93) OMB No. C22 -0011 (exp. 4/94)



RECORDATION FORM COVER SHE 9 / 446 Pre-Pan Prademark Office

Tab settings ⇔ ⇔ ♥	₩	▼	▼		▼ .	
To the Honorable Commissione	r of Pat	ents and Trademarks	: Please recor	d the attached o	riginal documents o	r copy thereof.
1. Name of conveying party(ies)	:		2. Name a	nd address of re	ceiving party(ies):	
WYATT, Richard T.			Name:	Dana-Farber Ca	ancer Institute, Inc	<b>)</b> .
SODROSKI, Joseph G.						
			Internal	Address:		
Additional name(s) of conveying party(ies) a	attached?	Yes X No	·			
3. Nature of conveyance:		•				
X Assignment		Merger	Street Ad	ddress: 44 Bin	nney Street	
Security Agreement		Change of Name				
Other		J	City: Bo	eston	State: MA	ZIP: 02115
			Oity. <u>23</u>		Otate	
Execution Date: January 25, 200	)0		Additional nar	ne(s) & address(es) at	ttached?	X No
4. Application number(s) or patent	numbe	er(s):	**			-
If this document is being filed	togethe	r with a new application	n, the execution	on date of the app	plication is:	
A. Patent Application No.(s)			, B.	Patent No.(s)		
09/446,799						
2044/705	3					
(1)/(1.3/CVVV NO.22	0.00 OP	Additional acceptance of	ached?	Yes 🗓 No		
03 FC:301		Additional numbers at	ached? L_1	Tes 🔼 140		
5. Name and address of party to		•			•	
concerning document should be	e mailed	<b>l</b> :	6. Total nu	mber of application	ons and patents inve	olved:
Name: Ronald I. Eisenstein (	Reg. N	lo. 30, 628)		(07.0ED 0.44)	<b>-</b> 40.0	ın
Internal Address: NIXON PEA	ABOD'	YİLP	7. Total fee	9 (37 CFR 3.41)	s <u>40.0</u>	<u> </u>
internal Address. Title 17 12 12	1202		X Encl	osed		
			☐ Auth	orized to be cha	rged to deposit acc	ount
<del></del>						
Street Address: 101 Federal St	treet		8. Deposit	account number:	:	
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9. Statement and signature.  To the best of my knowledge a	and hali	of the foregoing infor	nation is true r	and correct and a	inv attached conv is	a true conv of
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## Attachment to Form PTO - 1595 Recordation Form Cover Sheet

Additional Execution Dates
- January 31, 2000

Attorney's Docket No.: <u>157/48457</u>

### ASSIGNMENT

WHEREAS, We, Richard T. Wyatt, a United States citizen, residing at 11 Delphi Circle, Andover MA 01810 and Joseph G. Sodroski, a United States citizen residing at 10 Ashland Place, Medford MA 02155, have invented certain new and useful improvements in GLYCOSYLATED MODIFIED PRIMATE LENTIVIRUS ENVELOPE POLYPEPTIDES for which we have executed an application for Letters Patent in the United States, filed on December 22, 1999, United States Serial Number 09/446,799;

AND WHEREAS, the Dana-Farber Cancer Institute, Inc., a Massachusetts corporation, with its principal place of business at 44 Binney Street, Boston MA 02115, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue Patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said the Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said Dana-Farber Cancer Institute, Inc., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 101 Federal Street, Boston, Massachusetts 02110, U.S.A. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark, Office for recordation of this document.

of, 200 .	vatt, hereunto set my hand and seal this 25 day
<b>V</b>	Richard T. Wyatt
STATE OF MUMBULETTS COUNTY OF SUFFORK SS:	
This day of thuly, 2010, before his/her own free will for the purposes therein set	e me personally came the above-named as the individual who executed the same of torth.
Con Ma Managara	Dorack. Resterne
	Notary Public  Notary Public  Notary Public  My Commission Expires  August 16, 2009
IN TESTIMONY WHEREOF, I, Joseph 31 day of <u>January</u> , 2000	G. Sodroski, hereunto set my hand and seal this
	Joseph G. Sodroski
STATE OF MASSACHUSETTS COUNTY OF SUFFOR SS:	
This 31 day of January, 2000, before Joseph 6. Suproski, to me personally known his/her own free will for the purposes therein set	e me personally came the above-named as the individual who executed the same of forth.
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Notary Public

My Commission Expires

August 16, 2002

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